#### "APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549920004-7

EPR/EPF(c)/EWP(j)/EWT(m)/BDS--AFFTC/ASD--Ps-4/Pc-4 L 11283-63 s/0190/63/005/007/0966/0968 P=-4-RM/WW/MAY ACCESSION NR: AP3003783 Shostakovskiy, M. F.; Skvortsova, G. G.; Samoylova, M. Ya. TITLE: Free-radical copolymerization of m-aminophenol viny, ether and methyl methacrylate Vy\*sokomolekulyarny\*ye soyedineniya, v. 5, no. 7, 1963, 966-968 SOURCE: TOPIC TAGS: free-radical copolymerization, copolymer, amino-group-containing copolymer, m-aminophenyl vinyl ether, methyl methacrylate, azobis-isobutylnitrile, monomer concentration, monomer reactivity ratio, copolymer heat resistance, copolymer solubility, copolymer reactivity, crosslinked copolymer, ion exchanger ABSTRACT: New copolymers, which contain amino groups and are of interest as heatresistant ion-exchange resins/have been synthesized in yields of about 20% by free-radical [bulk] copolymerization of m-aminophenyl vinyl ether (M1) and methyl methacrylate (M2) at 60 ±10 in the presence of azobis-isobutyronitrile. The monomers were reacted in various ratios. M1 in a high initial concentration yielded a copolymer which is almost equimolar in composition; at high M2 concentrations the main product was poly(methyl methacrylate). The M1 and M2 reactivity Card

L 11283-63 ACCESSION NR: AP3003783

ratios were found to be 0.75 ±0.05 and 0.07 ±0.02 respectively. As M<sub>1</sub> does not homopolymerize in the presence of various initiators, it is assumed that the growth of the chain during copolymerization is caused by M<sub>2</sub>, which forms a reactive radical with the initiator and involves M<sub>1</sub> in the reaction. The copolymers are white or light-yellow powders or transparent films, and are insoluble in water, acids, alkalis, and many organic solvents. They withstand temperatures of up to 250C and decompose at 500C without melting. The copolymers were crosslinked owing to the presence of reactive -NH<sub>2</sub> and -COOCH<sub>3</sub> groups in the side chains. Crosslinking was confirmed by the behavior of the copolymers in chemical reactions and their insolubility in the above solvents. Orig. art. has:

ASSOCIATION: Irkutskiy institut organicheskoy khimii SO AN SSSR (Irkutsk Institute of Organic Chemistry, SO AN SSSR)

SUBMITTED: 23Nov63

DATE ACQ: 08Aug63

ENCL: 00

SUB CODE: CH

NO REF SOV: 004

OTHER: 001

ls/ //2 Card 2/2

PRILEZHAYEVA, Ye.N.; SHOSTAKOVSKIY, M.F.

"Thiolation" reactions of ethylene derivatives. Usp.khim. 32 no.8:897-947 Ag '63. (MIRA 16:9)

1. Institut organicheskiy khimii AN SSSR imeni Zelinskogo.

S/079/63/033/001/023/023 D204/D307

AUTHORS:

Shostakovskiy, M. F., Vleasov, V. M. and Mirskov, R.G.

TITLE:

Synthesis of the acetylenic esters of organotin

PERIODICAL: Zhurnal obshchey khimii, v. 33, no. 1, 1963, 324

TEXT: Compounds Et<sub>3</sub>SnORC=CH (where R=CH<sub>3</sub>, (CH<sub>2</sub>)<sub>2</sub>, CH(CH<sub>3</sub>)<sub>2</sub>, or C)CH<sub>3</sub>)<sub>3</sub>) were obtained by: (a) treating BrMgC=CROMgBr (obtained from EtMgBr and butyn-1-01-4) with triethylchlorostannane, heating for 8 hours at 100°C, cooling and adding water to the reaction mixture. The organic layer was separated, dried, the solvent (ether) was evaporated and the products were fractionated; (b) heating acetylenic alcohols (pretreated with Na) with Et<sub>3</sub>SnCl on a water bath. The compounds, whose structure was confirmed by ir spectroscopy, did not react with vinyl esters with the formation of acetals.

Card 1/2

Synthesis of the ...

S/079/63/033/001/023/023
D204/D307

ASSOCIATION: Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya Akademi nauk SSSR (Irkutsk Institute of Organic Chemistry of the Siberian Branch of the Academy of Sciences, USSR)

SUBMITTED: August 30, 1952 /Sic /

8/0079/63/033/005/1696/1696 ACCESSION NR: AP3001485

AUTHOR: Shostakovskiy, M. F.; Sokolov, B. A.; Kozienko, A. I;; Sultangareyev, R. O.: Yermakova, L. T.

TITLE: High temperature condensation of fluorohydrosilanes with chlorobenzene

SOURCE: Zhurnal obshchey khimii, v. 33, no. 5, 1963, 1696

TOPIC TAGS: methylphenyldifluorosilane

ABSTRACT: Methyl difluorohydrosilane was condensed with chlorobenzene at 640 degrees to form methylphenyldifluorosilane.

ASSOCIATION: Irkuskiy institut organicheskoy khimii Siberskogo otdeleniya akademii nauk SSSR (Irkutskiy Institute of Organic Chemistry, Siberian Division, Academy of Sciences, SSSR)

SUBMITTED: 28Dec62

DATE ACQ: 17Jun63 ENCL: 00

SUB CODE: 00

NO REF SOV: 000

OTHER: 000

Card 1/1

SHOSTAKOVSKIY, M.F.; VLASOV, V.M.; MIRSKOV, R.G.

Synthesis of organotin acetylenic acetals. Zhur.ob.khim. 33
no.6:2076 Je 163. (MIRA 16:7)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya
AN SSSR.

(Tin organic compounds) (Acetal) (Addtylene compounds)

GRACHEVA, Ye.P.; LABA, V.I.; KUL'BOVSKAYA, N.K.; SHOSTAKOVSKIY, M.F.

Synthesis and transformations of substituted vinyl ethers. Part 13: Stereochemistry of the reaction of addition of thiols to tert-butylacetylene. Zhur. ob. khim. 33 no.8:2493-2501.

Ag '63. (MIRA 16:11)

1. Institut organicheskoy khimii AN SSSR.

GRACHEVA, Ye.P.; LABA, V.I.; SHOSTAKOVSKIY, M.F.

Synthesis and transformations of substituted vinyl ethers. Part 14: Synthesis of  $\propto$  -tert-butylvinylalkyl sulfides and some of their properties. Zhur. ob. khim. 33 no.8:2501-2509 Ag 163. (MIRA 16:11)

1. Institut organicheskoy khimii AN SSSR.

SHOSTAKOVSKIY, M.F.; SKVORTSOVA, G.G.; ZAPUNNAYA, K.V.; SHERGINA, N.I.; CHIPANINA, N.N.

Infrared spectra of complexes formed by vinyl ethers of phenol, o-aminophenol, and aniline with stannic chloride. Dokl. AN SSSR 149 no.4:862-864 Ap '63. (MIRA 16:3)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR. 2. Chlen-korrespondent AN SSSR (for Shostakovskiy). (Vinyl compounds--Absorption spectra) (Tin chlorides)

SHOSTAKOVSKIY, M.F.; KHOMUTOV, A.M.; ALIMOV, A.P.

Copolymerization of vinyl chloroacetate with vinyl ethers and styrene. Izv. AN SSSR Ser.khim. no.10:1839-1843 0 '63.

Polymerization of vinyl alkyl ethers in the presence of organomagnesium compounds. 1843-1846 (MIRA 17:3)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

s/0289/63/000/003/0092/0096

ACCESSION NR: AP4015148 Shostakovskiy, M.F.; Sokolov, B.A.; Khil'ko, O.N.;

Balezina, G.G.; Alekseyeva, G.M.

TITLE: Addition of silane hydrides to vinyl ethers

AN SSSR. Sib. otd. Izv., no. 11. Ser. Khim. nauk, no. 3, SOURCE:

1963, 92-96

TOPIC TAGS: silicohydride, silane, silane hydride, addition reaction, vinyl ether addition reaction, trichlorosilane ether, dichloromethylsilane ether, dichloroethylsilane ether, triethylsilane ether, beta ether, Markownikoff rule, Raman spectrum

ABSTRACT: The addition of trichlorosilane, methyldichlorosilane, ethyldichlorosilane, and triethylsilane to vinylisooprophyl-, vinylbutyl-, vinylphenyl-, vinyl- o-, m- and p-cresyl ethers were studied. The addition of equimolar amounts of silane and vinyl etner was effected by heating and using chloroplatinic acid as the catalyst (beta-phenoxyethyltriethylsilane was prepared by the Grignard re-

AUTHORS:

CIA-RDP86-00513R001549920004-7" APPROVED FOR RELEASE: 08/09/2001

ACCESSION NR: AP4015148

action). The following new compounds were prepared and characterized: the beta-phenoxyethyl-, the beta-c-cresoxy ethyl, the betam-cresoxyethyl, and the beta-p-cresoxyethyl- trichlorosilanes; -dichloromethylsilanes, dichloroethylsilanes, and -triethylsilanes; the beta-butoxyethyl-dichloromethylsilane, dichloroethylsilane and triethylsilane; and the beta-isopropoxyethyldichloroethylsilane. The presence of the beta structure in the products, contrary to Markownikoff; s rule, was confirmed by Raman spectra and chemical decomposition. "Spectra were taken by N.I. Golovanov, for which the authors express their appreciation." Orig. art. has: 1 table and 1 equation.

ASSOCIATION: Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR (Irkutsk Institute of Organic Chemistry, Siberian branch AN SSSR)

SUBMITTED:

03Aug62

DATE ACQ: 13Mar64

ENCL:

SUB CODE:

NO REF SOV: 005

OTHER: 006

2/2

Card

L 23072-65 EWT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4 RM

ACCESSION NR: AR4048483 \$/0081/64/000/013/\$008/\$009

SOURCE: Ref. zh. Khimiya, Abs. 13557

AUTHOR: Shostakovskiy, M. F.; Skvortsova, G. G.; Zapunnaya, K. V.

TITLE: Cationic polymerization of vinylaryl ethers. I. Complex formation during the polymerization of vinyl ethers of phenol and o-aminophenol

CITED SOURCE: Sb. Vy\*sokomolekul. soyedineniya. Karbotsepn. vy\*sokomolekul. soyedineniya. M., AN SSSR, 1963, 216-218

TOPIC TAGS: cationic polymerization, polymerization catalyst, vinylaryl ether, stannic chloride, polyether synthesis, active complex formation, carbonium ion

TRANSLATION: During the polymerization and copolymerization of vinyl ethers of phenol and o-aminophenol under the influence of SnCl4, active complexes are formed between the catalyst and the monomer. These crystalline complexes remain active after extraction from the reaction medium and produce polymerization of freshly distilled vinyl monomers. The structure of the complex changes during the time it remains in the reaction mixture: the resistance to high temperatures gradually increases and the solubility decreases. A scheme is suggested for the Cord 1/2

L 23072-65

ACCESSION NR: AR4048483

initiation of polymerization by formation of an active complex between SnCl<sub>4</sub> and the vinyl ether of o-aminophenol, according to which SnCl<sub>4</sub> reacts with the oxygen in the vinyl ether and then apparently forms a carbonium ion which begins the growth of the polymer chain. The ultraviolet spectra of the active complexes were studied. Authors' abstract

ASSOCIATION: None

SUB CODE: OC ENCL: 00

2/2

SHOSTAKOVSKIY, M.F.; SHMONINA, L.I.; TIKHOMIROVA, I.M.

Reactivity of -halo vinyl alkyl ethers. Izv. AN SSSR. Ser. khim. no.12:2193-2196 D '63. (MIRA 17:1)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

SHAPIRO, E.S.; SHOSTAKOVSKIY, M.F.

Exchange reaction of vinyl acetate with phthalyl amino acids. Izv. AN SSSR. Ser. khim. no.12:2221-2222 D '63.

(MIRA 17:1)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

SHUYKIN, N.I.; BEL'SKIY, I.F.; SHOSTAKOVSKIY, V.M.; KHAR'KOV, S.N.;
GAYVORONSKAYA, G.K.

Conversion of -ketocarboxylic acid esters to lactams.
Dokl. AN SSSR 153 no.3:628-630 N '63. (MIRA 17:1)

1. Institut organicheskoy khimii im. N.D. Zelinekogo AN SSSR.
2. Chlan-korrespondent AN SSSR (for Shuykin).

SHOSTAKOVSKIY, M.F.; SIDEL'KOVSKAYA, F.P.; AVETISYAN, A.A.; ZELENSKAYA, M.G.; LOPATIN, B.V.

N-vinylthiopyrolidome. Pokl. AN SSSR 153 no.5:1089-1092 (MIRA 17:1)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR. 2. Chlen-korrespondent AN SSSR (for Shostakovskiy).

SHOSTAKOVSKIY, M.F.; CHEKULAYEVA, I.A.; KONDRAT'YEVA, L.V.

Interaction of diacetylene with bifunctional compounds. Dokl. AN SSSR 153 no.0:1353-1355 D '03.

1. Institut organicheskov khimii im. N.D. Zelinskogo in SSSR. 2. Chlen-korrespondent AN SSSR (for Shostakovskir).

ACCESSION NR: AP4010042

s/0062/64/000/001/0127/0132

AUTHOR: Dolgikh, A. N.; Bogdanova, A. V.; Plotnikova, G. I.; Ushakova, T. M.; Shostakovskiy, M. F.

TITLE: Investigation of diacetylene derivatives
Report 10. Interaction between ethinylvinylthicethers and water

SOURCE: AN SSSR. Izvestiya. Ser. khim., no. 1, 1964, 127-132

TOPIC TAGS: diacetylene derivatives, ethinylvinylthicethers, ethinylvinylalkyloxo, thio or nitroethers, triple bond reactivity, cix-configuration, keto-enol resonance, enol stabilization, thio-vinyl group, thicketo group, mercaptan addition products

ABSTRACT: Since the compounds CH=C-CH=CH-OR do not react with water in a neutral medium even under heating, hydration of the triple bond proceeded under the influence of HgSO<sub>H</sub> and heat to form the corresponding 2-acetylvinylalkylsulfides and their tautomeric 3-oxybutadiene-1,3-yl-acetylvinylalkylsulfides, a new series of diacetylene

Card 1/2

ACCESSION NR: AP4010042

derivatives. The possibility of keto-enol tautomerism of the derivatives and conditions for stabilization of the enol form - cisconfiguration and bond formation between the H of the OH-group and S, resulting in a six-membered ring - are discussed. The IR spectra confirmed presence of the cis-configuration. Acid hydration (10%  $\rm H_2SO_{ll}$ ) yielded mainly 2-acetylvinylalkylsulfide. In the interaction with water, in compounds of the type CH=C-CH=CH-XR where X = S, O, N, the sulfur atom, like O or N, increased the reactivity of the triple bond, compared to that in vinylacetylene. This influence appeared in the order N > 0 > S. The syntheses are described, as are yields and end products. Orig. art. has: 8 formulas.

ASSOCIATION: none

SUBMITTED: 22Aug63

DATE ACQ: 14Feb64

ENCL: 00

SUB CODE: CH

NO REF SOV: 011

OTHER: 005

Card 2/2

KONDRAT'YEVA, L.V.; CHEKULAYEVA, I.A.; SHOSTAKOVSKIY, M.F.; LOPATIN, B.V.

Addition of unsaturated amines to diacetylene. Izv.AN SSSR. Ser.khim. no.1:160-162 Ja '64. (MIRA 17:4)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

## "APPROVED FOR RELEASE: 08/09/2001 CI

CIA-RDP86-00513R001549920004-7

L 27255-65 EWI(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4 RM

ACCESSION NR: AP4047790

8/0289/64/000/002/0152/0153

25 22

AUTHOR: Shostakovskiy, M.F.; Komarov, N.V.; Atavin, A.S.; Yegorov, N.V.; Yarosh, O.G.

TITLE: Synthesis of trimethylsilylethynyl-alpha-furylcarbinol

SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya khimicheskikh nauk, no. 2, 1964, 152-153

TOPIC TAGS: silicoorganic compound, furane derivative, alkylsilane derivative, acetylene, heterocyclic acetal

ABSTRACT: The authors studied the reactions of 1) trimethylchlorosilane with a Mg-derivative of X-furylethynylcarbinol, and 2) trimethylsilylethynyl-magnesium bromide with furfural, a smoothly realizable process yielding 55-60% of trimethylsilylethynyl-K-furylcarbinol according to the reaction

Card 1/2

#### "APPROVED FOR RELEASE: 08/09/2001

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ACCESSION NR: AP4047790

They also prepared butyl-(3-trimethylsilyl-1-\(\sigma\)-furylpropyne-2) acetal 128-129C/3.5 mm Hg), the first representative of the silicoacetylene acetals with a heterocyclic substituent, by reacting trimethylsilylethynyl-\(\sigma\)-furylcarbinol with vinyl-butyl ether:

 $(CH_3)_3$  SIC  $\equiv$  C—CHOH—  $\parallel - \parallel + CH_2 - CHOC_1H_3 + CH_3 - CH(OC_1H_3)OCH - C <math>\equiv$  CSI(CH\_3) $\frac{1}{3}$ 

The procedures for preparing the compounds are described and analytical results identifying the products are presented. Orig. art. has: 3 formulas.

ASSOCIATION: Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR (Irkutsk organic chemistry institute, Siberian branch, AN SSSR)

SUBMITTED: 31Mar64

ENCL: 00

SUB CODE: OC, GC

NO REF SOV: 002

OTHER: 001

Card 2/2

ACCESSION NR: AP4019015

\$/0062/64/000/002/0363/0365

AUTHOR: Shostakovskiy, M. F.; Bogdanova, A. V.; Shamakhmudova, S.

TITLE: Highmolecular polymers of vinyl-n.butyl ethers -

SOURCE: AN SSSR. Izv. Seriya khimicheskaya, no. 2, 1964, 363-365

TOPIC TAGS: vinyl ether polymer, Ziegler catalyst propyl lithium, polymer, lithium, vinyl alkyl ether

ABSTRACT: The purpose of this work was to improve on Ziegler's catalyst so as to prepare stereoregulated polymers of vinyl ethers at room temperature (Ziegler catalysts require cooling due to excessive formation of the active component Al(i-C<sub>4</sub>H<sub>9</sub>)<sub>2</sub>Cl). This ether is industrially produced in the Soviet union and is the base for the important products "Vinipol" and the Shostakovskiy balsam (composition not explained). The recommended composition of the catalyst is VOCl<sub>3</sub>:LiC<sub>3</sub>H<sub>7</sub>:Al(i-C<sub>4</sub>H<sub>9</sub>)<sub>3</sub> in the propertion 1:1.5:3. Polymerization takes place at room temperature in 2-3 hours. The polymers are colorless, and the catalyst readily removable and universal for vinyl alkyl ethers of different structures. The polymers have a molecular weight of 1.46 . 106. Their radiograms are

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ACCESSION NR: AP4019017

\$/0062/64/000/002/0382/0384

AUTHORS: Shostakovskiy, M.F.; Komarova, L.I.; Pukhnarevich, V.B.;

Komarov, N.V.; Roman, V.K.

TITLE: 3,5-dinitrobenzoylhydrazones of organo silicon carbonyl com-

pounds

SOURCE: AN SSSR. Izv. Seriya khimicheskaya, no. 2, 1964, 382-384

TORIC TAGS: dinitrobenzoyl hydrazone, dinitrobenzoyl hydrazide, organo silicon carbonyl reagent, hydrozone, carbonyl

ABSTRACT: In the search for a reagent able to identify organo silicon carbonyl compounds, the authors found that 3,5-dinitrobenzoylhydrazide readily forms good crystallizing 3,5-dinitrobenzoylhydrazones with organo silicon aldehydes and ketones. In this respect, the reagent is different from 2,4-dinitrophenylhydrazine, semi-carbazide and hydroxylamine. The tendency of organo silicon aldehydes and ketones to form these compounds and yields greatly depends on their structure. Thirteen compounds were investigated from this point of view and their behavior recorded in a comprehen-

Card. 1/2

s/0062/64/000/003/0543/0548

ACCESSION NR: AP4025011

AUTHORS: Bogdanova, A.V.; Shostakovskiy, M.F.; Shamakhmudova, S.

TITLE: New simple vinyl ether polymers. Communication 3. Homogeneous catalyst for stereospecific polymerization at room temperatures.

SOURCE: AN SSSRL Izv. Seriya khimicheskaya, no. 3, 1964, 543-548

TOPIC TAGS: vinyl ether polymer, stereospecific polymer, stereospecific polymerization, homogeneous catalyst, modified Ziegler catalyst, polymerization activation, stereospecificity, stereospecific orientation, aluminum isobutyl containing catalyst, diisobutylaluminum chloride catalyst, catalyst component function, vinylbutyl ether polymer, vinylisobutyl ether polymer, vinyloyclohexyl ether polymer, vinyldecalyl ether polymer, molecular weight, viscosity, solubility, x ray pattern.

ABSTRACT: The modified Ziegler heterogeneous catalyst (TiCl, LiC3H7 and Al(1-C4H9)3) requires investigation to determine which component is responsible for activating the polymerization and which for directing stereospecificity. High viscosity high molecular weight stereo-

ACCESSION NR: AP4025011

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specific vinyl ethers were obtained at room temperature by using a ratio of the above components of 0.5:0.5:2. The vinylisobutyl ether thus prepared had an even higher viscosity than a polymer prepared with the new homogeneous catalyst  $Al(i-C_4H_9)_3:Al(i-C_4H$ 

ASSOCIATION: Institut organicheskoy khimii AN SSSR im. N. D. Zelinskogo (Institute of Organic Chemistry, "AN SSSR)

Card 2/3

SHOSTAKOVSKIY, M. F.; VIASOV, V. M.; VASIL'YEVA, A. A.

Problem of the preparation of acetylenic 1 glycols and some of their transfrmations. Report No. 1: Synthesis of 7 -glycols on the basis of 1-butyn-3-ol. Izv AN SSSR Ser Khim no. 4:696-698 Ap \*64. (MIRA 17:5)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

ACCESSION NR: AP4033388

5/0062/64/000/004/0709/0715

AUTHOR: Shemakhmudova, S.; Bogdanova, A. V.; Shostakovskiy, M. F.

TITIE: New polymers of simple vinyl ethers. Communication 4. Stereospecific copolymerization of simple vinyl ethers with methylacrylate and methylmethacrylate at room temperature.

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 4, 1964, 709-715 and top half of insert facing page 712

TOPIC TAGS: vinyl ether polymer, vinyl ether copolymer, vinyl ether methylacrylate copolymer, stereospecific copolymerization, methylacrylate polymer,
methylmethacrylate polymer, homogeneous catalyst system, triisobutylaluminum,
diisobutylaluminum chloride, heteorgeneous catalyst system, thermal stability,
thermomechanical property, elongation, solubility, x ray analysis, elastic
state, stereoregular polymer, stereoregular copolymer

ABSTRACT: Conditions for polymerizing methylacrylate and methylmethacrylate and for the stereospecific copolymerization of these with simple vinyl ethers were investigated. Three catalyst systems were tried for the copolymerizations:

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ACCESSION NR: AP4033388  (1) heterogeneous system of 1:1 of 1:3 Al(iClHo) Cl and Al(iClHo) Increased the yimpolymerization increased the yimpolymerization. The solubility in composition. The solubility in ethers with methacrylate is limposition.	organic solvents o	culty in separating	of the	
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mer from the catalysus mer from the catalysus with an incopolymer increases with an incopolymer acrylate and methylmethacrylate als. The copolymers have a since thermomechanical x-ray and solution of these polymers and copolymers are in figures.	, LD		edemii nauk	
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and 4 120	cheskoy khimil im.	Sciences, SSSR)		
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(MIER 17:11)

.. institut organicheskoy khimit Sibirskogo otdeleniya AS SSSR.

SHOSTAROVSKIY, M.F.; SHERGINA, N.H.; KOMANOV, N.V.; ERGESKAYA, S.I.;
TOUNHA, T.I.

Vibrational spectra of some organosilicon acetylene and diacetylene compounds. Izv. AN SSSR. Ser. khim. no.6:1126-1128 Je 164.

(MIEA 17:11)

1. Institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

SHOSTAKOVSKIY, M.F.; SHERGINA, N.I.; BRODSKAYA, E.I.; YAROSH, O.G.; KOMAROV, N.V.

Vibrational spectra of ethinylsilanes. Dokl. AN SSSR 158 no.5:1143-1145 (MIRA 17:10) 0 164.

- 1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR. 2. Chlen-korrespondent AN SSSR (for Shostakovskiy).

SHOSTAKOVSKIY, M.F.; VLASOV, V.M.; MIRSKOV, R.G.

Synthesis of organotin oxygen-containing compounds of the acetylene series. Dokl.AN SSSR 159 no.4:869-871 D 164 (MIRA 18:1)

1. Institut organicheskoy khimii Sibirskogo otdeleniya AN BBBR, Irkutsk. 2. Chlen-korrespondent AN SSSR (for Shostakovskiy).

L 10825-65 EWT(m)/EPF(c)/EFR/EWP(j)/T Pc-4/Pr-4/Ps-4 RPL RM/WW

ACCESSION NR: AP4045425

5/0190/64/006/009/1585/1590

AUTHOR: Sidel'kovskaya, F. P.; Shostakovskiy, M. F.; Ibragimov, F.; Askarov, M. A.

TITLE: Copolymerization of N-yinyilactams with vinylalkyl ethers

SOURCE: Vy\*sokomolekulyarn\*ye soyedineniya, v. 6, no. 9, 1964, 1585-1590

(3)

TOPIC TAGS: copolymer, copolymerization initiator, diazoisobutyronitrile, N-vinyllactam, vinylalkyl ether, N-vinylpyrrolidone, N-vinylcaprolactam, vinylethyl ether, vinylisopropyl ether, vinylbutyl ether

ABSTRACT: Diazoisobutyronitrile was used as the initiator in a study of the copolymerization of N-vinylpyrrolidone (b. p. 94-95C/4 mm,  ${\rm d}_4^{20}=1.0458$ ) and N-vinylcaprolactam (b. p. 94-95C/4 mm,  ${\rm d}_4^{20}=1.029$ ) with vinylethyl ether, vinylisopropyl ether and vinyl-n-butyl ether. 5 g of monomer mixture, containing 0.1, 0.25, 0.50, 0.75, 0.90, and 1.0 mol of individual monomers, were reacted at 60  $\pm$  1C for 72 hrs with 0.2% of the dintrile in sealed ampoules gassed with N2. The process produced 17 copolymers with a yield of up to 85.7% of theory and molecular weights of 550-1500. Nitrogen content, solubility, molecular weight ('cryoscopically in benzene), viscosity at 20C in dimethylformamide, and the copolymerization constants (graphically from the Mayo-Lewis integral equation) were determined for the copolymers and conditions were established for the preparation of

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	- L 10825-65	
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	polymers rich in N-vinyllactam. N-vinylpyrrolidone was found to copolymerize more readily than vinylalkyl ethers; its content in the copolymers reached 88 mol. % as compared to 55 mol. % of the vinylalkyl ether. Orig. art. has: 7 tables.	
3	ASSOCIATION! Institut organicheskoy kilmif im. N. D. Zelinskogo (institute of Organic Chemistry) and molecular war, it is a 1500 and ropen contest, somethy war, it is a 1500 and 2000 in the company of the contest, somethy to another the contest of the contes	
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	Cord. 2/2 and the vinylactum. Having by relidents was found to copolymerize more Cord. 2/2 and vinylalkyl othern; Regionalit in the topolymers retiched 88 mol. Tens compact	Company of the Compan
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EWT(m)/EPF(c)/EWP(j) Pc-li/Pr-li AFMD(t)/AS(mp)-2/BSD/RAEM(a)/ L 18281-65 SSD(c)/AFWL/ESD(gs)/ESD(t) 5/0062/64/000/009/1606/1610 ACCESSION NR: AP4045798

AUTHOR: Shostakovskiy, M. F.; Shergina, N. I.; Komarov, N. V.; Maroshin,

Yu. V.

TITLE: Vibration spectra of vinylacetylenic oxygen-containing organosilicon

compounds

SOURCE: AN SSSR. Izv. Seriya khimicheskaya, no. 9, 1964, 1606-1610

TOPIC TAGS: vinylacetyleneorganosilane, vinylacetylenic organosiloxane, vinylacetylenic organosilanol, vibration spectrum, IR spectru, Raman spectrum, vinylacetylene group, vibration frequency, vibration intensity

ABSTRACT: The IR spectra and the Raman spectra of vinylacetylenic oxygencontaining organosilicon compounds were examined to determine if the oxygen containing groups-COH, SiOH, COSi and SiOSi in the alpha-position with respect to the acetylenic bond had any significant effect on the vibrations of the vinylacetylene group. Data was obtained for the following compounds: dimethylvinylethynylcarbinol (I), dimethylvinylethynylsilanol (II), dimethylvinylethynylmethoxytrimethylsilane (III), pentamethylvinylethynyldisiloxane (IV), dimethylvinylethynyl-

Card 1/2

L 18281-65 ACCESSION NR: AP4045798

methoxymethylethylsilane (V), bis(dimethylvinylethynylmethoxy)dimethylsilane (VI), hexamethyl-1, 3-di(vinylethynyl)trisiloxane (VII), and tetramethyl-1, 2-di (vinylethynyl)disiloxane (VIII). The band characteristic of the acetylenic bond does not appear in the IR spectra of the vinylacetylenic alkoxysilanes V, V, VI, and in I; in the analgous organosilicon compounds II, III, VII and VIII, the CEC characterizing bands appear, at somewhat lower frequencies but higher intensities than in vinylacetylenic hydrocarbons. On the other hand the vinylacetylene group had little effect on the vibration frequency of the Si-OH, C-OH, Si-O-Si and C-O-Si bonds. The values for the double bond frequencies characteristic of the vinyl group remained essentially constant in all the compounds investigated. Orig. art. has: 1 table and 1 figure

ASSOCIATION: Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR (Irkutsk Institute of Organic Chemistry Siberian Department AN SSSR)

ENCL: 00

SUB CODE: OC, GC

NO REF SOV: 010

OTHER: 001

Card 2/2

SHOSTAKOVSKIY, M.F.; ATAVIN, A.S.; TROFIMOV, B.A.; GUSAROV, A.V.; GLADKOVA, G.A.

Interaction of mercaptans with cyclic acetals. Izv.AN SSSR.Ser.khim. no.9:1686-1687 S 164. (MIRA 17:10)

l. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

L 31365-65 EWT(m)/EPF(c)/EWP(j)/T/EWP(t)/EWP(b) Pc-4/Pr-4 IJP(c) JD/RM

ACCESSION NR: AP4047398 S/0062/64/000/010/1848/1853 30

AUTHOR: Shostakovskiy, M. F.; Khomutov, A. M.; Alimov, A. P.

TITLE: Stereospecific polymerization of vinyl-n. butyl ether at room temperature in the presence of sulfuric acid-aluminum sulfate complex

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 10, 1964, 1848-1853

TOPIC TAGS: vinyl butyl ether, stereospecific polymerization, aluminum sulfate complex, polymerization catalyst

ABSTRACT: Vinyl-n. butyl ether stereospecific polymers having a molecular weight of 9.5 x 10<sup>5</sup> and containing an MEK-insoluble fraction were obtained in 80-95% yields by homogeneous polymerization at room temperature in the presence of the catalytic sulfuric acid-aluminum sulfate complex. The insoluble fraction had a crystalline structure. The effects of polymerization time and temperature, and monomer and catalyst concentrations on the polymerization process were investigated. The highest molecular weight polymer was obtained at 30C,

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L 31365-65

ACCESSION NR: AP4047398

but varying temperature from 0-40C had little effect on the yield of the insoluble fraction. The effect of changing monomer concentration from 0-10 wt. % was insignificant, but an increase to 20 wt. % reduced the yield, molecular weight and insolubles. Varying monomer:catalyst ratio from 8000:1 to 128000:1 resulted in little change, but reducing the ratio to 2000:1 lowered product yield and molecular weight. Polymerization under a nitrogen atmosphere or in the presence of antioxidants had little effect on the process. The sulfuric acid-aluminum sulfate complex was not nearly as sensitive as the Ziegler catalyst to impurities in the monomer or solvent. This lesser need for careful purification in the polymerization system makes this catalyst for the stereospecific polymerization of vinyl-n. butyl ether commercially interesting. The polymer x-rays were taken by L.G. Vorontsov and the IR spectra by B. V. Lopatin, which the authors acknowledge. "Orig. art. has: 2 figures and 3 tables

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry, Academy of Sciences SSSR)

SUBMITTED: 21Jan63

NR REF SOV: 002

Card 2/2

ENCL: 00

OTHER: 011

SUB CODE: MT, GC

SIDEL'KOVSKAYA, F.P.; ZELENSKAYA, M.G.; MINAYERA, I.H.; SHOSTAKOVSKIY, M.F.

Lactones and lactams. Report No.24: Reactivity of  $\beta$ -pyrrolideny-lethyl esters of acrylic acids. Izv. AN SSSR Ser. khim. no.11: 2061-2063 N '64 (MIRA 18:1)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

SHOSTAKOVSKIY, M.F.; SIDEL'KOVSKAYA, F.P.; MINAKOVA, T.T.

Reaction of 1,1,3-tri-(3-chloroethoxy)propane with some sodium alcoholates. Izv. AN SSSR Ser. khim. no.11:2106-2108 N '64 (MIRA 18:1)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

SHOSTAKOVSKIY, M.F.; MINAKOVA, T.T.; SIDEL\*KOVSKAYA, F.P.

Unsaturated aldehydes. Report No.1: Properties of the products of addition of ethylene chlorohydrin to acrolein. Izv. \*\* SSSR Ser. khim. no.12:2197-2202 D \*64 (MIRA 18:1)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR.

SHOSTAKOVSKIY, M.F.; BOGDANOVA, A.V.; PLOTNIKOVA, G.I.

Addition of alcohols and mercaptans to the compounds with triple bonds. Usp.khim. 33 No.2:129-150 F \*64.

1. Institut organicheskoy khimii imeni N.D.Zelinskogo AM SSSR. (MIRA 17:10)

SHOSTAKOVSKIY, M.F.; KULIBEKOV, M.R.; GORBAN', A.K.; SHOSTAKOVSKIY, S.M.

Synthesis of organomagnesium compounds in a medium of formals. Thur. ob. khim. 34 no. 3:760-762 Mr '64. (MIRA 17:6)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR i Azerbaydzhanskiy sel¹skokhozyaystvennyy institut.

s/0079/64/034/004/1354/1355 ACCESSION NR: AP4034569 AUTHOR: Shostakovskiy, M. F.; Vlasov, V. M.; Mirskov, R. G. TITIE: Reaction of triethylmethoxystannane with acetylenic alcohols SOURCE: Zhurnal obshchey khimii, v. 34, no. 4, 1964, 1354-1355 TOPIC TAGS: triethylmethoxystannane acetylenic alcohol reaction, tin containing acetylenic ether, disproportionation, reaction condition, reactant ratio, acetylenic alcohol, triethylmethoxystannane, stannane ABSTRACT: Reaction of triethylmethoxystannane with primary, secondary or tertiary acetylenic alcohols containing an acetylenic hydrogen results in the formation of tin-containing acetylenic ethers of two types, depending on reaction conditions  $_{r(C_2H_5)_3}SnOXC \equiv CH + CH_3OH$ and reactant ratios:  $(C_2H_5)_3$ SnCXC=CSn $(C_3H_5)_3$ +CH $_3$ OH (C<sub>3</sub>H<sub>5</sub>)<sub>3</sub>SnOCH<sub>3</sub> + HOXC≡CH · (II) X=CH; CH,CH; CH(CH,); C(CH,). Card 1/3

ACCESSION NR: AP4034569

Type I compounds are formed in 80-90% yield by reacting triethylmethoxystannane with a 2-4 fold excess of acetylenic alcohol at -10 C or at room temprature for 30 minutes; 10-20% of type II compounds are also formed. Type II compounds are formed in 80% yield when a 1:1 or 1:2 ratio of stannane:alcohol is heated to 100-110 C for 3-5 hours, or on prolonged stirring at room temperature. On prolonged standing or heating the type I compounds are disproportionated according to the equation:

 $2(C_2H_5)_3SnOXC {\equiv} CH \longrightarrow (C_2H_5)_3SnOXC {\equiv} CSn(C_2H_5)_3 + HOXC {\equiv} CR.$ 

The following compounds were synthesized and characterized: 3-triethylstannoxy-propyn-1, 3-triethylstannoxy-1-triethylstannylpropyn-1, 4-triethylstannoxybutyn-1, 4-triethylstannoxy-1-triethylstannylbutyn-1, 3-triethylstannoxy-3-methylpropyn-1, 3-triethylstannoxy-3,3-dimethylpropyn-1, and 3-triethylstannoxy-1-triethylstannoxy-1-triethylstannoxy-3,3-dimethylpropyn-1.

ASSOCIATION: Irkutskie institut organicheskoy khimii Sibirskogo otdeleniya, Akademii nauk SSSR (Irkutsk Institute of Organic Chemistry, Siberian Division,

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SHOUTAKOVSKIY, M.F.; VLASOV, V.M.; GRE 07 Y, P.I.

Polyfunctional acetals. Synthesis acetylenic acetals based on primary and secondary acet enic alcohols and vinyl alkyl ethers. Thur. ob. khim. 34 no. 5:1403-1407 My '64. (MTRA 17:7)

l. Irkutskiy institut organicheskoy zhimii Sibirskogo otdeleniya AN SSSR.

VORONKINA, T.M.; STRUKOV, I.T.; SHOSTAKOVSKIY, M.F.

Synthesis of precursors and fragments of antibiotics. Part 12: Condensation of organosilicon compounds with thioglycol acid and its ethyl ester. Zhur. ob. khim. 34 no. 5:1464-1467 (MIRA 17:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.

SHOSTAKOVSKIY, M.F.; VLASOV, V.M.; NIKIFOROV, A.A.

Interaction of cyclic acetals with thiophenol. Zhur.ob. khim. 34 no. 5:1686-1687 My '64. (MIRA 17:7)

1. Irkutskiy institut organicheskoj khimii Sibirskogo otdeleniya AN SSSR.

SHOSTAKOVSKIY, M. F.; ATAVIN, A. S.; TROFIMOV, B. S.; ORLOVA, S. Ye.; KEYKO, V. V.

Decomposition of 1-(d-chloroethyloxy)=2-acetoxyethane. Zhur. ov. Khim. 34 no.6:2089-2090 Je 164. (MIRA 17:7)

l. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

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SHOCTAKOVSKIY, M.P.; ATAVIN, A. S.; THOPIMOV, B. A.

D 1,3-Dickolane ring crening by organomagnesium compounds. Sour.
cb. Khim. 34 no.6:2:88-2009 Je '64.

Synthesis of E-encetylenic A-ether alcohols. Ibid.:208)
(MIRs 17:7)
3. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya
AN SSSR.
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L. 6646-65 EWT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4 AFETR/SSD(a)/ASD(m)-3 RM S/0079/6k/03k/007/2112/2116

ACCESSION NR: AP4042746 S/0079/6k/03k/007/2112/2116

AUTHOR: Shostakovskiy, N. F.; Atavin, A. S., Trofimov, B. A. 57

TITIE: Vinyl ethers of di- and triethylene glycol

SOURCE: Zhurnal obshchey khimii, v. 3k, no. 7, 1964, 2112-2116

TOPIC TAGS: polyglycol vinyl ether, monovinyl ether, divinylether, diethylene glycol, triethylene glycol, vinylation, glycol vinylation, acetylene, reaction glycol, triethylene glycol, vinylation, glycol vinylation reaction condition, rate, polyglycol vinylation side products, glycol vinylation reaction condition, polymerization, polymerization catalyst, hydrolysis

ABSTRACT: This is a study of the specific features of synthesis of these ethers, and the inclusives of resettion conditions on yield. Both mono-

ABSTRACT: This is a study of the specific features of synthesis of these enters, their properties and the influence of reaction conditions on yield. Both monoand divinyl ethers were prepared by the author from acetylene and the respective aligned. Details are tabulated and the synthesis described. Vinylation of the glycols under study proceeded rapidly at 130-140 C and an initial acetylene glycols under study proceeded rapidly at 130-140 C and an initial acetylene pressure of 9-12 atm. in the presence of 2-55 kOH. Yields were between 56.4 and pressure of 9-12 atm. in the presence of 2-55 kOH. Yields were between 56.4 and 57.35. The reaction rate declined as the number of C-O-C groups increased. Fartial (to 105) breakup of the polyglycols at the C-O bonds was observed. Side

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A I ( I I I I I I I I I I I I I I I I I	products 8.8. of the triethylene vinylation were diethylene glycol divinyl ether products 8.8. of the triethylene vinylation were diethylene glycol divinyl ether (1.2%) and methyldioxane (1.2%). Increasing (10%), ethylene glycol divinyl ether (1.2%) and methyldioxane (1.2%). Increasing initial acetylene pressure to 16 atm. and KOR to 7% increased divinyl ether yield initial acetylene pressure to 16 atm. and KOR to 7% increased yields but increased from 78.4 to 91.6%. A KOH concentration of over 10% decreased yields but increased the reaction rate at decreased temperatures. Adding water decreased yield; this the reaction rate at decreased temperatures. The ethers obtained were could be improved by increasing the alkali content. The ethers obtained were colorless fluids, soluble in most organic solvents. Their properties and IR spectoral are described. Monovinyl ethers convert to polyacetals upon storage or in the presence of acids. The formula is presented. Divinyl ethers are stable upon storage. They polymerized readily in the presence of acid catalysts and gave solid polymers. Hydrolysis (1% H <sub>2</sub> SO <sub>1</sub> ) of the polymer gave acetaldehyde and the corresponding glycol. The monovinyl compounds hydrolized more readily than the divinyl ponding glycol. The monovinyl compounds hydrolized more readily than the divinyl ones. Orig. art. has: 2 figures, 1 table and 1 formula.  ASSOCIATION: Irkutskiy institut organicheskoy khimil Sibirskogo otdeleniya Akademii nauk SSSR (Irkutsk Institute of Organic Chemistry, Siberian Branch, Academy of Sciences, SSSR)	
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L 17535-65 EWT(m)/EPF(c)/EPR/EWP(j) Pc-4/Pr-4/Ps-4 RPL WW/RM ACCESSION NR: AP4044194 S/0079/64/034/008/2620/2622

AUTHOR: Shostakovskiy, M. F.; Sokolov, B. A.; Koziyenko, A. I.; Yermakova, L. T.; Sultangareyev, R. G.

TITLE: High temperature condensation of chlorosilane hydrides with chloroaryl-fluoro- and chloroarylchlorosilanes

SOURCE: Zhurnal obshchey khimii, v. 34, no. 8, 1964, 2620-2622

TOPIC TAGS: chloroarylfluorosilane, chloroarylchlorosilane, condensation, high temperature condensation, synthesis

ABSTRACT: The high temperature condensation of chlorosilane hydrides with chloroarylfluorosilanes or chloroarylchlorosilanes, specifically the reactions at 620-640C of trichlorosilane with p-chlorophenyltrifluorosilane or with p-chlorophenyltrichlorosilane, or of methyldichlorosilane with mixtures of m- and o-isomers of chlorophenyltrifluorosilane or with m-, o- and p-isomers (7:2:1 ratio) of chlorophenyltrichlorosilane, was investigated. The chloroarylfluorosilanes

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entered the high temperature condensation reaction analgously to the chloroarylchlorosilanes, but the compounds containing the trichlorosilylgroup gave a notably higher yield of condensation products in comparison to compounds containing the trifluorosilyl group. The p-bis(trichlorosilyl)benzene[p-(Cl<sub>3</sub>Si)C<sub>6</sub>H<sub>4</sub>SiCl<sub>3</sub>] was synthesized more readily from trichlorosilane and p-chlorophenyltrichlorosilane than from trichlorosilane with p-dichlorobenzene. The following novel compounds were synthesized: p-F<sub>3</sub>SiC<sub>6</sub>H<sub>4</sub>SiCl<sub>3</sub>: m-, o-[Cl<sub>2</sub>(CH<sub>3</sub>)Si]C<sub>6</sub>H<sub>4</sub>SiF<sub>3</sub>; p-(F<sub>3</sub>Si) C<sub>6</sub>H<sub>4</sub>SiF<sub>3</sub>; m-, o-, p-[Cl<sub>2</sub>(CH<sub>3</sub>)Si]C<sub>6</sub>H<sub>4</sub>SiCl<sub>3</sub>. Orig. art. has: no graphics

ASSOCIATION: None

SUBMITTED: 18Jun63

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SUB CODE: GC

NO REF SOV: 003

OTHER: 002

Card 2/2

13

SHOSTAKOVSKIY, M.F.; VLASOV, V.M.; KUZNETSOVA, T.S.; GOLOVANOVA, N.I.

Synthesis of asymmetrical acetals of acetylenic glycols based on A.E. Favorskii's reaction. Zhur. ob. khim. 34 no.8:2804 (MTRA 17:9)

Ag '64.

SHOSTAKOVSKIY, M.F.; KULIBEKOV, M.R.; GORBANI, A.K.

New method of synthesizing sulfides based on exchange reactions between mercaptals and organomagnesium compounds. Zhur. ob. khim. 34 no.9:2837-2839 3 164. (MIPA 17:11)

l. Institut organicheskoy khimii AN SSSR i Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

EWT(m)/EPF(c)/EWP(j) Pc-li/Pr-li L 18282-65

\$/0079/64/034/009/2839/2842 ACCESSION NR: AP4046172

AUTHOR: Shostakovskiy, M. F., Sokolov, B. A.; Dmitriyeva, G. V.;

Alekseyeva, G. M.

TITLE: The addition reaction of hydrosilanes with vinyl ethers

SOURCE: Zhurnal obshchey khimii, v. 34, no. 9, 1964, 2839-2842

TOPIC TAGS: addition reaction, trichlorosilane, methyldichlorosilane, methyldiethylsilane, vinyl ether, aryl vinyl ether, alkyl vinyl ether, silane addition,

siloxane

ABSTRACT: The few existing studies are listed. Addition reactions in the presence of H2PtCl6 were studied for trichlorosilane, methyldichlorosilane, methyldiethylsilane and the vinyl ethers of phenol, n-chlorophenol and of 2, 4-dichlorophenol, n-butyl and isobutyl alcohols. The reaction proceeds in 2 directions according to (1) and (2). Synthesis and end products are described.

Card 1/2

L 18282-65

ACCESSION NR: AP4046172

 $ROCH = CH_2 + HSiR'_nCL_{-n} \longrightarrow ROCH_2CH_2SiR'_nCL_{3-n}$ 

 $HOCH=CH_2 + HSiR'_{n}Cl_{3-n} \rightarrow HOSiR'_{n}Cl_{3-n} + C_2H_4$  (2)

Spectroscopic investigation of both direct and inverse synthesis showed that the addition of silanes occurs at the beta carbon atom of the vinyl ether. Since intense polymerization results from the interaction of the two reagents, the yield was below 10%. Fourteen siloxanes were obtained. The reactions proceed alike for aryl- and alkyl- vinyl ethers. Hydrolysis of addition products of methyl-dichlorosilane and the various ethers yielded viscous, colorless or yellowish siloxanes with a molecular weight of 500-800. Orig. art. has: 2 formulas

ASSOCIATION: Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya Akademii nauk SSSR (Irkutsk Institute of Organic Chemistry, Siberian Department of the Academy of Sciences, SSSR)

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NO REF SOV: 005

OTHER: 007

L 16063-65 EWT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4 ESD(t)/ESD(gs) RM ACCESSION NR: AP4046173 S/0079/64/034/009/2943/2845

AUTHOR: Shostakovskiy, M. F.; Vlasov, V. M.; Mirskov, R. G.; Loginova,

I. Ye.

TITLE: Synthesis and transformation of organic tin-acetylene compounds III

Organic tin-acetylene acetals (
SOURCE: Zhurnal obshchey khimii, v. 34, no. 9, 1964, 2843-2845

TOPIC TAGS: tin acetylene compound, tin acetylene acetal, acetylene acetal, tin acetylene compound synthesis, infrared spectrum, valence vibration

ABSTRACT: In continuation of earlier work, the interaction between non-symmetrical acetylene acetals with hexa-alkyl stannoxane and trialkylmethoxy stannanes was studied to elucidate, in particular, the role of hydrogen in the acetylene group. Reaction of triethylmethoxystannane with non-symmetrical acetylene acetals of primary, secondary and tertiary alcohols proceeds according to the following schema:

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. 16063-65 ACCESSION NR: AP4046173	7-CVO (C.H.	s)₃SnC≡CXO	
$(C_2H_5)_3SnOCH_3 + HC$	CHCH <sub>3</sub> →	сисн3 + си30 и	
	C4H00	C₄H₀Ó	
reaction, temperature and durant 1:2 ratio of the stannous conceaction time and removal of	mpound and the accuracy distribution water during the i	rials, removal of water during twere found to influence the yieletal, 100C temperature, 3 hour reaction gave best results. Infrads at a 2144-2148 cm <sup>-1</sup> frequence and at the x position with respectation at table; a 53.4% yieletarm of 1-/1!-	s' ared cy ct

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SHOSTAKOVSKIY, M.F.; VLASOV, V.M.; MIRSKOV, R.G.; LOGINOVA, I.Ye.

Synthesis and transformations of acetylenic organotin compounds. Part 3: Acetylenic organotin acetals. Thur. ob. khim. 34 no.10: 3178-3180 0 164.

l. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

Synther of trimerty/silylethymyl-d-furylcarbinol, Izv. SO AN dSSR : 7 Ser. khim. neuk no.22152-153 16: (MIRA 1821)

1. Irkutskiy institut organicheskoy khimii Sthirskogo otdetenia: AM SSSR.

s/0076/64/038/002/0469/0471

ACCESSION NR: AP4019525

AUTHOR: Smirnova, V. I.; Zhuravleva, T. S.; Shigorin, D. N.; Gracheva, Yc. P.;

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Shostakovskiy, M. F.

TITLE: EPR spectra of some di-substituted acetylenes upon exposure to gamma rays and to light

SOURCE: Zhurnal fizicheskoy khimii, v. 38, no. 2, 1964, 469-471

TOPIC TAGS: methylphenylacetylene structure, ethylphenylacetylene structure, dimethylacetylene structure, electron paramagnetic resonance, acetylene, alkyl radical, acrylic compound, methyl, EPR

ABSTRACT: This is a continuation of a work by the same authors (AN SSSR, Dokl., 140, 149, 1961) where they described how a number of acetylenes of the RC = CH type (where R is an alkyl radical) upon exposure to gamma radiation form radicals where the unpaired electron is delocalized by the triple bond over the whole molecule. The present work transfers the above study to Ar - C = C - R arylic compounds of a different structure. The object of the study were: methylphenylacetylene, its deuterium tagged form, ethylphenylacetylene and dimethylacetylene.

Card 1/2

PRILEZHAYEVA, Ye.N.; PETUKHOVA, N.P.; SHOSTAKOVSKIY, M.F. Reaction of thioscetic acid with vinyl esters. Dokl. AN SSSR (MIRA 17:2)

154 no.1:160-163 Ja'64. 1. Institut organicheskoy khimii im N.D. Zelinskogo AN SSSR. 2. Chlen-korrespondent AN SSSR (for Shostakovskiy).

SHOSTAKOVSKIY, M.F.; KOMAROV, N.V.; GUSEVA, I.S.; MISYUNAS, V.K.

Interaction between stannanols and acetylenes. Dokl. AN SSSR 158 no.4:918-921 0 '64. (MIRA 17:11)

Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya
 SSSR. 2. Chlen-korrespondent AN SSSR (for Shostakovskiy).

SHOSTAKOVSKIY, Mikhail Fedorovich; VLASOV, Viktor Mikhaylovich; SHOSTAKOVSKIY, Zakhariy Fedorovich; IZHEVSKIY, Konstantin Mikhaylovich; NIKOLAYEV, V.R., red.

[Curative polymers] TSelebnye polimery. Moskva, Izd-vo "Znanie," 1965. 43 p. (Novoe v zhizni, nauke, tekhnike. VIII Seriia: Biologiia i meditsina, no.6) (MIRA 18:5)

1. Chlen-korrespondent AN SSSR (for Shostakovskiy).

SHOSTAKOVSKIY, M.F.; ATAVIN, A.S.; ORLOVA, S.Ye.; TROFIMOV, B.A.

Synthesis of A-hydroxyl alkyl ethers of asymmetric acetylenic glycols.

Zhur. org. khim. 1 no.6:1170 Je '65.

1. Irkutskiy institut organicheskoy khimii Sibirakogo otdeleniya AN SSSR.

EWT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4 EM L 37570-65 S/0062/65/000/002/0359/0362 ACCESSION NR: AP5008112

AUTHOR: Bogdanova, A.V.; Dolgikh, A.N.; Shostakovskiy, M.F.

TITLE: Synthesis of primary, secondary, and tertiaryalkoxy alcohols of the "enyne" series

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 2, 1965, 359-362

TOPIC TAGS: alkoxy alcohol synthesis, primary alkoxy alcohol, secondary alkoxy alcohol, tertiary alkoxy alcohol, olefinic acetylenic alcohol, conjugated unsaturated alcohol, ethynylvinyl ether, Grignary reaction, olefinic alkoxyketol

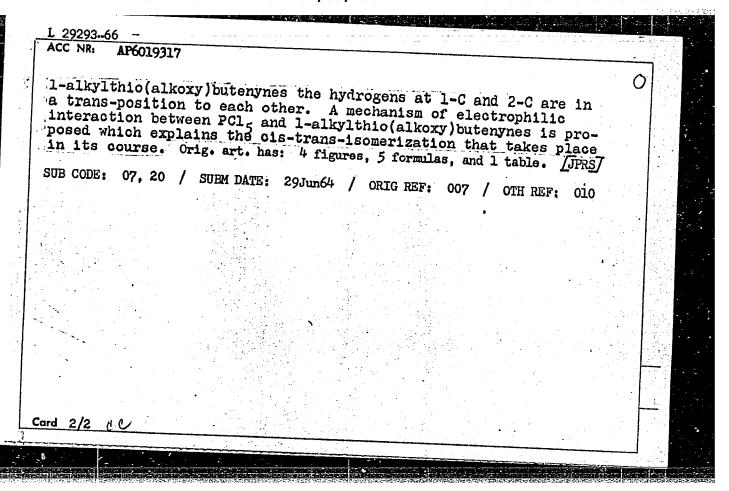
ABSTRACT: Conjugated acetylenic-olefinic primary, secondary and tertiary alkoxy-alcohols which may be used for the production of herbicides or growth accelerators were prepared by the reaction of ethynylvinylmethyl, ethynylvinylbutyl or ethynylvinylbenzyl ether with acetone, di-n-propyl ketone, acetaldehyde, n-butyraldehyde, crotonaldehyde or ethylene oxide. The alkoxy alcohols were obtained via the MgBr derivatives of ethynylvinyl ethers prepared by their reaction with C<sub>2</sub>H<sub>5</sub>MgBr; the physical properties and infrared spectra of the reaction products were determined and the secondary alcohols were identified by preparing acetals with vinylethyl ether. The hydration of the alcohols gave olefinic alkoxyketols. Yields of 16.3-63% of the theoretical were produced by the Card 1/2

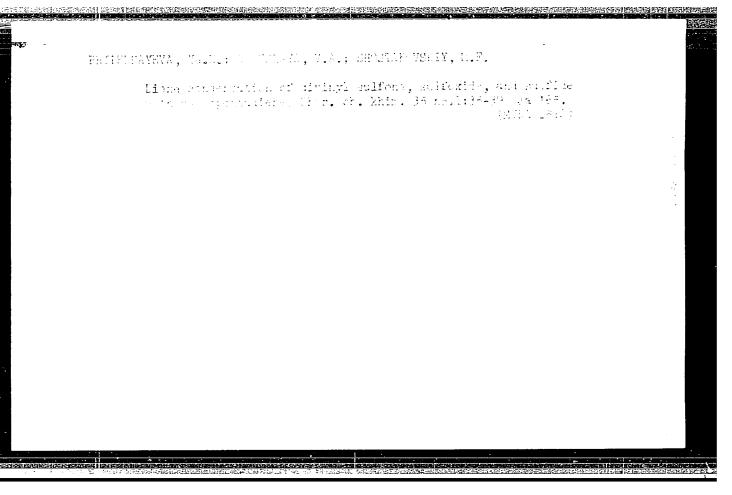
	L 37670-65 ACCESSION NR: AP5008112	
CI	reaction, which proceeded by the general formula  H=C-CH=CH-OR R'>C-C=C-CH=CH-OR - R'>C-C=C-CH=CH-OR	
	OMgBr OH  R=R'=R'=CH <sub>2</sub> (I) R=CH <sub>3</sub> , R'=R'=n-C <sub>3</sub> H <sub>1</sub> (II); R=C <sub>4</sub> H <sub>3</sub> , R'=R'=CH <sub>3</sub> (III); R=C <sub>4</sub> H <sub>3</sub> , R'=R'=n-C <sub>3</sub> H <sub>2</sub> (IV); R=CH <sub>3</sub> C <sub>4</sub> H <sub>4</sub> , R'=R'=CH <sub>3</sub> CH <sub>3</sub> , R'=H(VI); R=C <sub>4</sub> H <sub>3</sub> , R'=H' R'=n-C <sub>4</sub> H <sub>2</sub> (VII); R=CH <sub>3</sub> , R'=H, R'=CH <sub>3</sub> -CH=CH(VIII)	
	CH≡C-CH=CH-OC4H6+CH3-CH3-H0-CH3-CH4-C≡C-CH=CH-OC4H6  Orig. art. has: 1 table and 15 formulas. (IX)  Orig. art. has: 1 table and 15 formulas. N.D. Zelinskogo, Akademii nauk	
	SSSR (Institute of Organic Onto) SUB CODE: OC	
	SUBMITTED: 12Jun64 ENCL: 00  NO REF SOV: 003 OTHER: 004	
	Card 2/2 bs	

	9-65 EWT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4 RM S/0062/65/900/002/0363/0365 27 S/0062/65/900/002/0363/0365 27	
AUTHO	R: Bogdanova, A.V.; Dolgikh, A.N.; Shostakovskiy, M.F.  Synthesis of primary, secondary and tertiary alkylthio-enyne alcohols	
± ⊹sourc	E: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 2, 1965, 363-365	
	TAGS: alkylthicalcohol, olefinic acetylenic alcohol, conjugated unsaturated primary alcohol synthesis, secondary alcohol synthesis, tertiary alcohol ethynylvinylthicalcohol, Grignary reaction	
ABSTR	ACT: Conjugated olefinic-acetylenic primary, secondary and tertiary thioether acetylenic primary	
n-buty!	organomagnesium compounds generated in the presence of C2H5MgBr and the	
proper produc	ts were identified by elemental analysis and infrared spectroscopy to the second table to see the second table table to see the second table tab	
Card 1/	2	

L 37669-65 ACCESSION NR:	CH = Con Con R	
* .	$R'=C_{2}H_{5}, R'=R''=CH_{3}(I); R=C_{2}H_{5}, R'=R''=n-C_{2}H_{1}(II); R=C_{2}H_{5}, R'=CH_{3}$ $R''=CH_{3}=CH(III); R'=H, R''=CH_{3}(IV); R'=H, R''=n-C_{2}H_{1}, R=C_{2}H_{5}(V);$ $R=C_{2}H_{5}, R'=H, R''=CH_{3}-CH=CH(VI); R=i-C_{3}H_{7}, R'=CH_{5}, R''=C_{4}H_{5}(VII);$ $CH=C-CH=CH-SC_{4}H_{5}+CH_{4}-CH_{5}-CH_{5}-C=C-CH=CH-SC_{4}H_{5}(VIII);$ $CH=C-CH=CH-SC_{4}H_{5}+CH_{4}-CH_{5}-C=C-CH=CH-SC_{4}H_{5}(VIII);$	
ASSOCIATION: SSSR (Institute	1 table and 9 formulas. Institut organicheskoy khimii im. N. D. Zelinskogo Akademii n of Organic Chemistry, Academy of Sciences, SSSR)  12Jun64 ENCL: JO SUB CODE: OC	auk
SUBMITTED: NO REF SOV:	120 m v 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m 1 m	
Card 2/2 As		

-	L 29293_66 - EWP(j)/EWT(m)/T RM SOURCE CODE: UR/0079/65/035/008/1350/1357 ACC NR: AP6019317	
	AUWIOR. Vestlivey, G. S.; Prilezhayeva, Ye. N.; Bystrov, V. F.; Shostakovskiy, M. F.	
ŀ	ORG: Institute of Organic Chemistry im, N. D. Zelinskiy, AN SSSR (Institut organi-	
	Chaskov Knimil An Dock)	
	TITIE: Structure of products of the reaction of (alkoxy)alkylthiobutenynes with phosphorus pentachloride	
	phosphorus pentadizioride SOURCE: Zhurnal obshchey khimii, v. 35, no. 8, 1965, 1350-1357 TOPIC TAGS: phosphorus chloride, chemical reaction, proton resonance, organic sulfur	
	compounda study of proton magnetic	
	resonance spectra indicated that addition of carbon bond	
	with the formation of childring and the first	
-	of a nucleophilic reaction proceeds stereospecifically with the	
	formation of ols-1-airouy during and an augle on hills conditions	
	with one molecule of a thiol (MeSH) under hubble with a cis-struc- also resulted in a product (1-Me-thiobutenyne) with a cis-struc- also resulted in a product of the addition of PCl <sub>5</sub> to ture. It was shown that in products of the addition of PCl <sub>5</sub> to	
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	Card 1/2 UDC: 547.261	
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PWINETHAYLVA, Ye.M.; AYOVSKAYA, V.A.; TOYVORI, L.V.; WHEYYAR VA, FOLSE; ANDRIANOVA, G.; SHOSTAKOVSKIY, K.F.

Diene condensation of divinyl culfone, sulfoxide, and sulfide with hexachlorocyclopentadiene. Thur. on. knim. 36 no.1:39-46 Jul 165. (MIRA 18:2)

SHOSTAKOVSKIY, M.F.; VIACOV, V.M.; MIRSKOV, R.G.; PETROVA, V.N.

Oxygen-containing acetylenic organotin compounds. Part 9:
Synthesis and transformations of organotin acetylenic ethers.

Yhur. ob. khim. 35 no.1:47-51 Ja '65.

(MIRA 18:2)

1. Irkutskiy institut organichesk y khimii Sibirskogo otdeleniya AN SSSR.

Contractivity of almohyde hydrates. Reaction of ontoral project hemiacotal with vinyl butyl other. Zhur. ob. Anim. 3: 10.1: 198 Ja 165.

1. Trkutskiy institut organicheskoy khimil Sibirskogo otdsl-niya AN SSSP.

Pc-4/Pr-4 RM 5/0079/65/035/002/0335/0338 EWT(m)/EPF(c)/EWP(j) L 32654-65 AP5005553 ACCESSION NR: AUTHOR: Shostakovskiy, M. F.; Komarov, N. V.; Maroshin, Yu. V. The interaction of polyorganosiloxanes with Iotsich's reagent TITLE: SOURCE: Zhurnal obshchey khimii, v. 35, no. 2, 1965, 335-338 TOPIC TAGS: polyorganosiloxane, silicoorganic compound, Totsich reagent, acetylenic Grignard reagent, magnesium bromovinylacetylene, dialkylsilanone, acetylenic silanol The reaction of polorganosiloxanes with acetylenic Grignard compounds (Iotsich's reagent) was studied experimentally studied in order to investigate the observed effects of structure on reactivity and establish a possible reaction mechanism. The organometallic compounds were prepared in dry ether and reacted by heating with siloxanes. Magnesiumbromovinylacetylene (I), prepared from magnesium, bromoethane and vinylacetylene, was reacted with octamethyl-1, 4-dihydroxytetrasiloxane in ether solution to give 47.8% tetramethy1-1,2-di(vinylethynyl)disiloxane by the reaction: 4CH2=CHC≡CMgBr + HO[(CH3)2SiO]4H → → 4(CH<sub>3</sub>)<sub>2</sub>(CH<sub>2</sub>=CHC:=C)SiOMgBr (HCI) -H<sub>1</sub>O -- 2(CH<sub>3</sub>)<sub>2</sub>(CH<sub>2</sub>=CHC=C)SiOSi(C=CCH=CH<sub>2</sub>)(CH<sub>3</sub>)<sub>2</sub> Card 1/2

L 32654-65 AP500553 ACCESSION NR:

(I) reacted with polymethylethylsiloxane to give methylethylvinylethynylsilanol, and dimethyl, ethyl, diethyl- and diisopropylvinylacetylenic silanols were similarly prepared. Pentamethylphenylethynylsiloxane was prepared by reacting polydimethy-Isilchane trimethylchlorosilane and an organometallic compound obtained from magnesium, bromoethane and phenylacetylene; (I) was reacted with acetone and trimethylchlorosilane to give 1,1-dimethylpenten-4-yne-2-hydroxytrimethylsilane, and 1,1-dimethylpenten-4-yne-2- and 1-methyl-1-ethylpenten-4-yne-2-hydroxymethylethylsilane were produced by similar reactions. The results suggest that the reactions require the presence of a terminal hydroxyl in the reacting siloxanes, as indicated by previous studies, acetylenic magnesiumbromosilanolate being formed as an intermediate in the synthesis of acetylenic silanols or of symmetric or asymmetric acetylenic siloxanes. The analogous formation of magnesiumbromoalcoholates under similar conditions suggested the presence of "dialkylsilanones" of the formula R2SiO, and the existence of multiple silicon-oxygen bonds in such intermediates is tentatively proposed. Orig. art. has: 11 formulas.

ASSOCIATION: None

08Aug63 SUEMITTED:

NO REF SOV: 007

ENCL: 00

SUB CODE:

000 OTHER:

Card 2/2

L 27289-65 MTM(m)/EPF(c)/WP(J)	/mp(t)/mp(b) Pc-4/P	r-4 [JP(e) JD/RM	
ACCESSION NR: AP5005574		/65/038/002/0435/0436 24	
The state of the s	F.; Komarov, N. V.;	and the control of th	
TITLE: New preparative meth	hod for silicon acet	ylides	
	khimii, v. 38, no.		
TOPIC TAGS: silicon acetyl	ide, ethynylsilane,	preparation	
ABSTRACT: A simple and conreadily available starting silanes. A trialkylchloros bis(trialkylsilyl) sulfate acetylide in an inert solve	ilane is treated wi which, in turn, is not with heating to	th H <sub>2</sub> SO <sub>4</sub> to form the reacted with monosodium form the ethynylsilane	
in 65-75% yield. Orig. ar			
ASSOCIATION: none SUBMITTED: 12Jun63	ENCL: 00	SUB CODE: GC	
NO REF SOV: 1005 TO SECTION	OTHER: 004	ATD PRESS: 3191	
Card 1/1		1930 Table 1	
			7 42 5 3 3 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5

E:T(m)/EPF(c)/E:P(j)/T Pc-4/Pr-4 \$/0079/65/035/003/0466/0468 L 41576-65 ACCESSION NR: AP5008839 AUTHOR: Shostakovskiy, M. F.; Atavin, A. S.; Trofimov, B. A.; Vyalykh, Ye. P. TITLE: Synthesis of silicon-containing cyclic acetals SOURCE: Zhurnal obshchey khimii, v. 35, no. 3, 1965, 466-468 TOPIC TAGS: acetal, silicon organic compound, organic synthesis ABSTRACT: A combination of a silicon atom with metadioxane rings may produce substances with new useful properties. For the synthesis of silicon-containing cyclic acetals a study was made of reactions of pentaerythrate monocycloacetal, /trimethylolethane monocycloacetal and glycerin monoacetal with dimethyldiacetoxysilane. The yield of the desired products ranges from 30 to 60%. The macromolecular silicon organic side products contain acetal cycles in the side chains. Trimethylolethane and glycerin monocycloacetals react with dimethyldiacetoxysilane producing two substances: ethers of dimethylacetoxysilanes and symmetrical bis(metadioxane) or bis-(metadioxolane) ethers of dimethylsilanediols. In the reaction of acetal and trimethylolethane monocyclobenzal with dimethyldiacetoxysilane, 2,5-dimethyl-5- and 5methyl-2-phenyl-5-(dimethylacetoxysilyl)-1,3-dioxane were obtained respectively.

## "APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R001549920004-7

1. 48979-65 EWI(m)/EPF(c)/EWP(j)/T

Po-4/Fr-4 RM

ACCESSION NR: AP5009663

UR/0062/65/000/003/0528/0529

AUTHOR: Shapiro, E. S., Shostakovskiy, M. F.

1

TITLE: Chemical reactions of phthalylglycine vinyl ester

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 3, 1965, 528-529

TOPIC TAGS: phthalylglycine, vinyl ester, vinyl phthalylglycinate, halogen addition, olefin addition, unsaturated ester, thioacetic acid, pyrrolidonylethylthiol, hexachlorocyclopentadiene

ABSTRACT: The addition of bromine and chlorine to phthalylglycine vinyl ester produced phthalylglycine  $\mathcal{L}$ ,  $\beta$ -dibromoethyl ester ( $C_{12}H_{9}O_{4}NRr_{2}$ ) and  $C_{12}H_{9}O_{4}NCl_{2}$ , respectively. The addition of thioacetic acid and  $\beta$ -pyrrolidonylethylthiol to phthalylglycine vinyl ester yielded, respectively, phthalylglycine  $\beta$ -acetylthioethyl ester ( $C_{14}H_{13}NO_{5}S$ ) and phthalylglycine b-pyrrolidonylethylthioethyl ester ( $C_{18}H_{20}O_{5}N_{2}S$ ). The reaction of hexachlorocyclopentadiene with phthalylglycine vinyl ester formed 1, 4, 5, 6, 7, 7-hexachloro-2-phthalylglycylbicyclo[2, 2, 1]-5-heptine ( $C_{17}H_{9}O_{4}NCl_{6}$ ). All the syntheses are described.

ASSOCIATION: Institut organicheskoy khimii im. N.D. Zelinskogo Akademii nauk SSSR (Institute of Organic Chemistry, Academy of Sciences, SSSR)

Card 1/2

L 48979~65			0
ACCESSION NR: AP5009663			
SUBMITTED: 22Jun64	ENCL: 00	SUB CODE: OC, Q	8
NO REF SOV: 005	OTHER: 002		
3/2			

SHOSTAKOVSKIY, M.F.; SKVORTSOVA, G.G.; DOMNINA, Ye.S.; GLAZKOVA, N.P.

Some features of vinylindole chlorination in halogenation reactions. Izv. AN SSSR.Ser, khim. no.3:529-531 '65. (MIRA 18:5)

1. Irku'skiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

SHOSTAKOVSKIY, M.F.; ATAVIH, A.S.; TROFIGOT, B.A.; LAUSOV, V.I.

Reaction of the addition of glycols and polyethylene glycols to vinyl bytyl ether. Zhur. eb. khim. 35 no.4:613-615 Ap '65.

(M.RA 18:5)

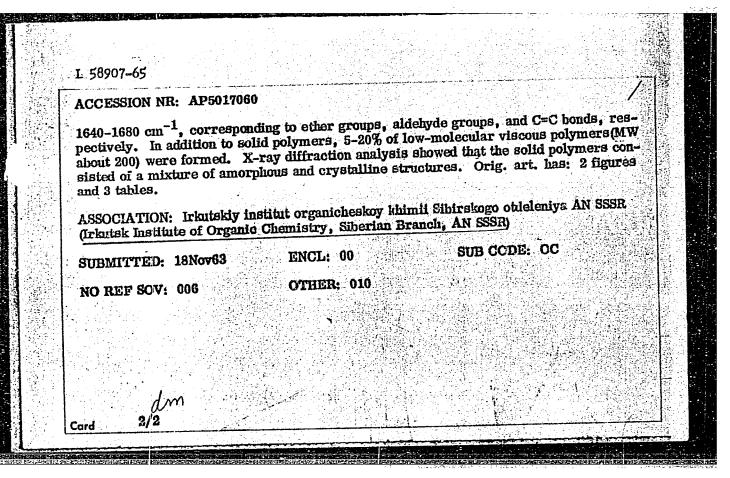
1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

SHOSTAKOVSKIY, M.F.; CHEKULAYEVA, I.A.; KONONOV, N.F.; ZARUTSKIY, V.V.; OSTROVSKIY, S.A.; ARAKELYAN, V.G.

Triethanolamine vinylation reaction. Izv, AN SSSR. Ser. khim. no.4: 698-701 '65. (MIRA 18:5)

1. Institut organicheskoy khimit im. N.D.Zelinskogo AN SSSR.

EVIT(m)/EPF(e)/EVP(j)/T Pc-L/Pr-L RM L 58907-65 UR/0289/65/000/001/0088/0092 ACCESSION NR: AP5017060 547.381:541.64 AUTHOR: Shostakovskiy, M. F.; Belyayev, V. I.; Okladnikova, Z. A.; Vasil'yeva, I. Serebrennikova, E.V. TITLE: Polymerization of acrolein under the influence of organomagnesium compounds SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya khimicheskikh nauk, no. 1, 1965, 88-92 TOPIC TAGS: acrolein polymer, organomagnesium compound, polymerization catalyst, Grignard reagent ABSTRACT: The following polymerization catalysts were considered: ethylmagnesium bromide, isopropylmagnesium bromide, butylmagnesium bromide, isobutylmagnesium bromide, and phenylmagnesium bromide. Isobutylmagnesium bromide produced the highest yield of acrolein polymer (12%), and hence was the only catalyst used in subsequent experiments, which involved the determination of the effect of catalyst concentration, temperature, and duration of the reaction on the polymerization. The acrolein polymers obtained were found to contain 35-41% of unsaturated C=C bonds and 7-8 mole % of free aldehyde groups, which indicates an active participation of these groups in the formation of polymers. Infrared spectra showed the presence of bands at 900-1180, 1690-1720, and 1/2 Card



SIDEL'KOVOKAYA, F.T., AVETISYAN, A.A.; SHOSTAKOVSKIY, M.F.

Lactones and lactams. Report No.25; Allylthiolactams. Izv. AN
SSSR. Ser. khim. no.4:702-708 '65. (MIRA 18:5)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

SHOSTAKOVSKIY, M.F.; VLASOV, V.M.; LOZHENITSYNA, A.S.; GAVRILOVSKAYA, A.A.

Synthesis of primary-tertiary acetylenic  $\varepsilon$ -glycols. Izv. AN SSSR. Ser. khim. no.4:709-712 '65. (MIRA 18:5)

1. Irkutskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR.

1 40701-65 EPF(c)/EWP(j)/EWT(m) Pc-4/Pr-4 RM UR/0079/65/035/004/0750/0750
ACCESSION NR: APJOIO193
AUTHOR: Shostakovskiy, M. F.; Vlasov, V. M.; Mirskov, R. G.
TITLE: Synthesis of acetylenic organotin compounds
SOURCE: Zhurnal obshchey khimii, v. 35, no. 4, 1965, 750
TOPIC TAGS: organotin compound, acetylenic organotin compound, alkyne, acetylene derivative, organomet
ABSTRACT: A new preparative method has been developed for organotin compounds of the type R <sub>3</sub> SnC≡CR. First, trialkyltin halides are treated with powdered NaOH or KOH, then with acetylenic compounds containing an acetylenic hydrogen atom. Presumed intermediates are trialkyltin hydroxides and hexaalkylstannoxanes (hexaalkyltin sumed intermediates are trialkyltin compounds. Triethylphenylethynyltin was oboxides), which react with acetylenic compounds. Triethylphenylethynyltin was obtained in 80% yield from triethyltin chloride and phenylacetylene. [VS]
ASSOCIATION: Irkutskiy institut organicheskcy khimii Sibirskogo otdeleniya Akademii nauk SSSR (Irkutsk Institute of Organic Chemistry of the Siberian Department of the Academy of Sciences, SSSR)
Card 1/2